

Claims

1 Polyurethane elastomers comprising the product of the reaction of

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- a) at least one diisocyanate and/or polyisocyanate with
- b) at least one polyester polyol having an OH number of 20 to 280 and a functionality of 1 to 3, and optionally with
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- c) one or more polyether polyol or polyether ester polyol each having an OH number of 10 to 149 and a functionality of 2 to 8, and optionally with
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- d) one or more members selected from the group consisting of chain extenders having molecular weights lower than 800 and crosslinking agents with having OH numbers of 150 to 1870.
- in the presence of
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- e) at least one amine catalyst,
- f) at least one esters of monobasic carboxylic acid or polybasic carboxylic acids, the (first) dissociation constant (pK) of which is 0.5 to 4, and optionally
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- g) a foaming agent, and optionally
- h) one or more conventional additives,
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- wherein the maximum ratio of the number of ester groups in said f) to the number of amino groups in e) is 1.0.

Sub A1

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Sub A6

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2. The polyurethane elastomer according to Claim 1 wherein said a) is a prepolymeric reaction product of 4,4'-diphenylmethane diisocyanate and polyester polyol .
3. A molded article comprising the polyurethane elastomers according to Claim 1.
4. A method of using the polyurethane elastomer of Claim 1 comprising producing a member selected from the group consisting of a roller, an elastic element and a shoe sole.
5. The elastomer of Claim 1 wherein additives are one or more members selected from the group consisting of emulsifiers, foam stabilizers, cell-size regulators, flame retardants, nucleating agents, antioxidants, internal lubricants, demolding agents, colorants, dispersing agents, pigments, reaction retarders, aging stabilizers, plasticizers, fungicides and anti bacteria agents.

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